WE CLAIM:

1. A method for treating a patient that has osteoporosis and is being administered cyclase activating parathyroid hormone (CAP) or analogues thereof comprising also administering a cyclase inhibiting parathyroid hormone peptide (CIP) having an amino acid sequence from between (SEQ ID No.1 [PTH₂₋₈₄]) and (SEQ ID No. 2 [PTH₃₄₋₈₄]) or a conservatively substituted variant thereof exhibiting parathyroid hormone (PTH) antagonist activity in a therapeutically effective, but non-toxic amount that reduces the occurrence of hypercalcemia or osteosarcoma in the patient resulting from the administration of CAP.

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- 2. The method of Claim 1 wherein the peptide has an amino acid sequence from between (SEQ ID No.3 [PTH₃₋₈₄]) and (SEQ ID No. 4 [PTH₂₈₋₈₄])
- 3. The method of Claim 1 wherein one determines the amount of CAP and CIP present in the patient.
- 4. The method of Claim 3 wherein the CIP administration is performed in a pulsatile manner.
- 5. A method for treating a patient that has osteoporosis comprising administering a cyclase inhibiting parathyroid hormone peptide (CIP) having an amino acid sequence from between (SEQ ID No.1 [PTH₂₋₈₄]) and (SEQ ID No. 2 [PTH₃₄₋₈₄]) or a conservatively substituted variant thereof exhibiting parathyroid hormone (PTH) antagonist activity in a therapeutically effective, but non-toxic amount that reduces the occurrence of hypercalcemia or osteosarcoma in the patient resulting from the administration of CAP.
 - 6. The method of Claim 5 wherein the peptide has an amino acid sequence from between (SEQ ID No.3 [PTH₃₋₈₄]) and (SEQ ID No. 4 [PTH₂₈₋₈₄])

- 7. The method of Claim 5 wherein one determines the amount of CAP and CIP present in the patient.
- 8. The method of Claim 7 wherein the CIP administration is performed in a pulsatile
- 5 manner.